IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.(Currently Amended) A device for recording data on a recording medium which can be written by a recording head unit which produces a recording energy beam, the device comprising:

[[-]] a control assembly for controlling the intensity of the recording beam,

[[-]] a set of measures for supplying control data to said control assembly comprising a measuring circuit for measuring the quality of the recorded signals,

[[-]] a database relating to the medium for supplying previous data to said control assembly,

~~characterized in that~~ wherein the set of measures comprises additional measuring circuits of the recorded signal including a temperature measuring circuit configured to adjust said intensity

based on temperature.

2.(Currently Amended) ~~A~~ The device as claimed in claim 1, ~~characterized in that~~ wherein at least one of the measuring ~~circuit~~ circuits determines parameters through measurements from real-time recording conditions.

3.(Currently Amended) ~~A~~ The device as claimed in claim 1 ~~or 2~~, ~~characterized in that~~ wherein at least one of the measuring circuits is a jitter measuring circuit.

4.(Currently Amended) ~~A~~ The device as claimed in claim 1 ~~or 2 or 3, characterized in that at least one of the measuring circuits is a~~, wherein the temperature measuring circuit ~~that~~ operates in real time during recording.

5.(Currently Amended) ~~A~~ The device as claimed in ~~claim 4~~ claim 1, ~~characterized in that~~ wherein the temperature measuring circuit ~~is in the form of~~ includes a circuit for measuring threshold current needed by ~~the~~ a semiconductor laser to ~~which on~~

~~the light~~ provide said recording energy beam.

6. (Currently Amended) ~~A~~ The device as claimed in claim 1 ~~to 5~~, ~~characterized in that~~ wherein at least one of the parameters supplied to the ~~control~~ control assembly is related to ~~the~~ a scanning velocity at which ~~the~~ recording take place.

7. (Currently Amended) ~~A~~ The device as claimed in claim 1 ~~or 6~~, ~~characterized in that~~ wherein at least one of the measuring circuits is a tilt measuring circuit that operates in real time during recording.

8. (Currently Amended) ~~A~~ The device as claimed in ~~one of the claims 1 to 7~~ claim 1, ~~characterized in that~~ wherein at least part of the database is contained at a location of said medium.

9. (Currently Amended) ~~A~~ The device as claimed in ~~one of the claims 1 to 8, characterized in that~~ claim 1, wherein at least part of the database is contained in ~~one of its~~ a memory ~~circuits~~.

10. (Currently Amended) ~~A~~ The device as claimed in ~~one of the claims 1 to 9, characterized in that~~ claim 1, wherein the recording medium is in the form of an optical disc.

11. (Currently Amended) A recording method ~~implemented in a device as claimed in one of the claims 1 to 10, characterized in that it comprises the following steps~~ comprising the acts of:

[[-]] ~~insertion~~ inserting of a medium to be recorded into a recording device,

[[-]] ~~identification of~~ identifying the medium,

[[-]] ~~rejection of~~ rejecting the medium if it is unsuitable for recording,

[[-]] test recording test data on the medium~~based on said previous data~~,

[[-]] reading ~~of~~ the test ~~recording~~ data,

[[-]] determining ~~the~~ recording power based on ~~the~~ signal levels ~~of the recorded signals~~from reading the test data,

[[-]] entering a ~~possible~~ first correction of said recording power as a function of jitter data,

[[-]] entering a ~~possible~~ second correction as a function of

temperature, scanning speed of the disc.~~disc, the amount of disc tilt or any other parameter that influences substantially the quality of the recorded data,~~

12. (Currently Amended) ~~A~~ The method as claimed in claim 11, ~~characterized in that the step relating to~~ wherein the entering the second correction act ~~as a function of temperature, scanning speed, or any other parameter~~ is carried out in real time during the recording of data.

13. (Currently Amended) A recording medium obtained by the implementation of the method as claimed in ~~one of the claims 11 or 12~~ claim 11.

14. (Currently Amended) ~~A~~ The recording medium as claimed in claim 13, ~~characterized in that it~~ wherein the recording medium is ~~in the form of~~ an optical disc.

15. (New) A device for at least one of reading and writing on a recording medium, the device comprising:

a laser source configured to provide a laser beam for said at least one of reading and writing;

a housing configured to house said laser source; and

a control circuit configured to control power of said laser beam as a function of temperature inside said housing.

16. (New) The device of claim 15, wherein said control circuit is further configured to control said power as a function of said temperature by measuring a current that switches on the laser source.

17. (New) The device of claim 15, wherein said control circuit is further configured to control said power as a function of jitter of recovered written data.

18. (New) The device of claim 15, wherein said control circuit is further configured to control said power as a function of a scanning velocity of the recording medium.

19. (New) The device of claim 15, wherein said control circuit

is further configured to control said power as a function of an amount of tilt of the recording medium.